

Contents Volume 138

Seismic evidence for very deep roots of continents J. Gossler and R. Kind	1
Constraints on the lateral strength of slabs from three-dimensional dynamic flow models L. Moresi and M. Gurnis	15
Helium, neon and argon isotope systematics in Kerguelen ultramafic xenoliths: implications for mantle source signatures P.J. Valbracht, M. Honda, T. Matsumoto, N. Mattielli, I. McDougall, R. Ragetti and D. Weis	29
A brief Oligocene period of flood volcanism in Yemen: implications for the duration and rate of continental flood volcanism at the Afro-Arabian triple junction J. Baker, L. Snee and M. Menzies	39
Inherited Pb components in magmatic titanite and their consequence for the interpretation of U-Pb ages L.-S. Zhang and U. Schärer	57
Chemical dynamics of enriched mantle in the southwestern United States: Thorium isotope evidence M.R. Reid and F.C. Ramos	67
Estimates of crustal permeability on the Endeavour segment of the Juan de Fuca mid-ocean ridge W.S.D. Wilcock and A. McNabb	83
Hydrothermal exploration near the Azores Triple Junction: tectonic control of venting at slow-spreading ridges? C.R. German, L.M. Parson and HEAT Scientific Team	93
Os isotopes as tracers in seafloor hydrothermal systems: metalliferous deposits from the TAG hydrothermal area, 26°N Mid-Atlantic Ridge G. Ravizza, C.E. Martin, C.R. German and G. Thompson	105
A precursor to the Matuyama/Brunhes transition-field instability as recorded in pelagic sediments P. Hartl and L. Tauxe	121
A TEM investigation of shock metamorphism in quartz from the Sudbury impact structure (Canada) P. Joreau, B.M. French and J.-C. Doukhan	137
Source and distribution of dissolved radium in the Bega River estuary, Southeastern Australia G.J. Hancock and A.S. Murray	145
Fresh water seepage and pore water recycling on the seafloor: Sagami Trough subduction zone, Japan U. Tsunogai, J. Ishibashi, H. Wakita, T. Gamo, T. Masuzawa, T. Nakatsuka, Y. Nojiri and T. Nakamura	157
High resolution windows into early Holocene climate: Sr/Ca coral records from the Huon Peninsula M. McCulloch, G. Mortimer, T. Esat, L. Xianhua, B. Pillans and J. Chappell	169
Author Index Volume 138	179

3

5

1

4

2

6